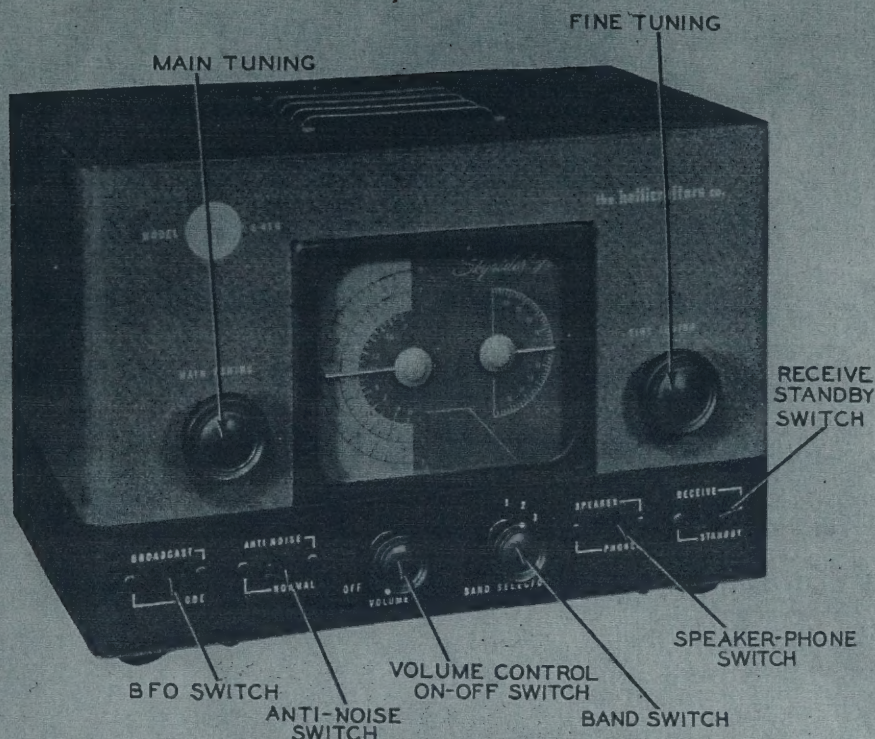


HALLICTRAFTERS  
MODELS S-41-G, S-41-W



HALLICTRAFTERS  
MODELS S-41-G, S-41-W

HALLICTRAFTERS MODEL S-41G

TRADE NAME Hallicrafters, Models S-41G, S-41W  
MANUFACTURER The Hallicrafters Co., 2611 S. Indiana Ave., Chicago, Ill.  
TYPE SET AC-DC Operated 3-Band Superheterodyne Communications Receiver  
TUBES (SIX) Types 12SA7 Converter, 12SK7 IF Amp., 12SQ7GT Det.-AVC-AF, 12SQ7GT BFO-ANL, 35L6GT Power Output, 35Z5GT Rectifier

POWER SUPPLY 105-125 Volts AC-DC  
TUNING RANGE—BROADCAST 550-2100KC.

RATING .250 Amp. @ 117 Volts AC  
SHORT WAVE 2.1-7.7 MC, 7.7-30.0 MC

ALIGNMENT INSTRUCTIONS

To set pointer, turn variable fully closed and set pointer at the extreme low freq. end of the dial. Use isolation transformer if available. If not, connect capacitor in series with the low side of the signal generator and chassis. Set volume control at maximum volume and keep input from signal generator no higher than is necessary to obtain output reading. Keep bandspread pointer at "0" while making all adjustments. Have BFO switch "on" only while adjusting A5. Use insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
Direct.	High side to pin #8 of 6SA7. Low side to chassis.	455KC	Band 1	High freq. end.	Across voice coil.	A1, A2, A3, A4.	Adjust for maximum output. If isolation trans. is not used use .001 MFD. capacitor as dummy Ant. to reduce hum modulation.
Direct.	"	"	"	"	"	A5	Adjust for zero beat.
330Ω	High side to Ant. terminal. Low side to ground terminal.	600KC	"	600KC	"	A6	Adjust for maximum output.
330Ω	"	1600KC	"	1800KC	"	A7	"
330Ω	"	"	"	Tune for maximum output.	"	A8	"
330Ω	"	2.4MC	Band 2	2.4MC	"	A9	"
330Ω	"	7.0MC	"	7.0MC	"	A10	"
330Ω	"	"	"	Tune for maximum output.	"	A11	Rock variable and adjust for maximum output.
330Ω	"	28.0MC	Band 3	28.0MC	"	A12	Adjust for maximum output.
330Ω	"	28.0MC	"	Tune for maximum output.	"	A13	Rock variable and adjust for maximum output.

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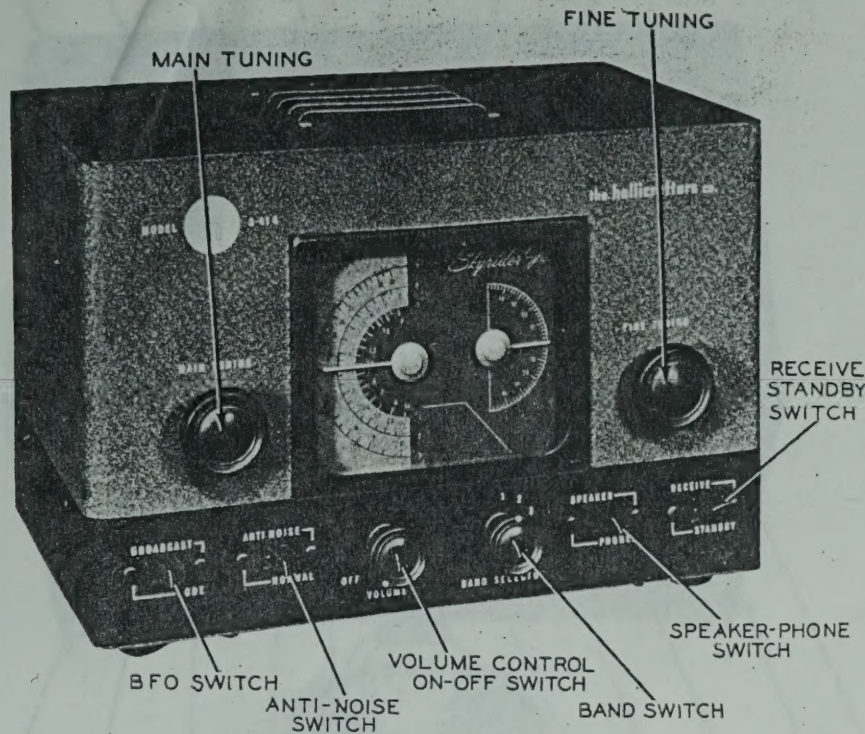
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HALLICRAFTERS  
MODELS S-41-G, S-41-W



HALLICRAFTERS MODEL S-41G

HALLICRAFTERS  
MODELS S-41-G, S-41-W

TRADE NAME Hallcrafters, Models S-41G, S-41W  
MANUFACTURER The Hallcrafters Co., 2611 S. Indiana Ave., Chicago, Ill.  
TYPE SET AC-DC Operated 3-Band Superheterodyne Communications Receiver  
TUBES (SIX) Types 12SA7 Converter, 12SK7 IF Amp., 12SQ7GT Det.-AVC-AF, 12SQ7GT BFO-ANL, 35L6GT Power Output, 35Z5GT Rectifier

POWER SUPPLY 105-125 Volts AC-DC  
TUNING RANGE—BROADCAST 550-2100KC.

RATING .250 Amp. @ 117 Volts AC  
SHORT WAVE 2.1-7.7 MC, 7.7-30.0 MC

ALIGNMENT INSTRUCTIONS

To set pointer, turn variable fully closed and set pointer at the extreme low freq. end of the dial. Use isolation transformer if available. If not, connect capacitor in series with the low side of the signal generator and chassis. Set volume control at maximum volume and keep input from signal generator no higher than is necessary to obtain output reading. Keep bandspread pointer at "0" while making all adjustments. Have BFO switch "on" only while adjusting A5. Use insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
Direct.	High side to pin #8 of 6SA7. Low side to chassis.	455KC	Band 1	High freq. end.	Across voice coil.	A1,A2, A3,A4.	Adjust for maximum output. If isolation trans. is not used use .001 MFD. capacitor as dummy Ant. to reduce hum modulation.
Direct.	"	"	"	"	"	A5	Adjust for zero beat.
330Ω	High side to Ant. terminal. Low side to ground terminal.	600KC	"	600KC	"	A6	Adjust for maximum output.
330Ω	"	1800KC	"	1800KC	"	A7	"
330Ω	"	"	"	Tune for maximum output.	"	A8	"
330Ω	"	2.4MC	Band 2	2.4MC	"	A9	"
330Ω	"	7.0MC	"	7.0MC	"	A10	"
330Ω	"	"	"	Tune for maximum output.	"	A11	Rock variable and adjust for maximum output.
330Ω	"	28.0MC	Band 3	28.0MC	"	A12	Adjust for maximum output.
330Ω	"	28.0MC	"	Tune for maximum output.	"	A13	Rock variable and adjust for maximum output.

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ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		HALLICRAFTERS PART No.	STANDARD REPLACEMENT		
1	Converter	12SK7	12SK7	6R	
2	IF Amp.	12SK7	12SK7	6N	
3	Det.-AFC-AF	12SQ7UT	12SQ7UT	8Q	
4	RF-A.N.L.	12SQ7UT	12SQ7UT	8Q	
5	Power Output	35L6GT	35L6GT	7AC	
6	Rectifier	35Z5GT	35Z5GT	6AD	

## CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
			HALLICRAFTERS PART No.	SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.
7A	40	150	45B087	DSB-403030-150	EL-443	PRS-150-40-30/25-20	EZ433150
B	30	150				125-20	
C	30	150				PRS150-30	
D	20	25					
8	.02	400					
9	.25	200					
10	.02	600					
11	.01	400					
12	.005	600					
13	.05	200					
14	.02	400					
15	.25	200					
16	.05	200					
17	.01	400					
18	250	500					
19	200	500					
20	25	500					
21	50	500					
22	240	500					
23	300	500					

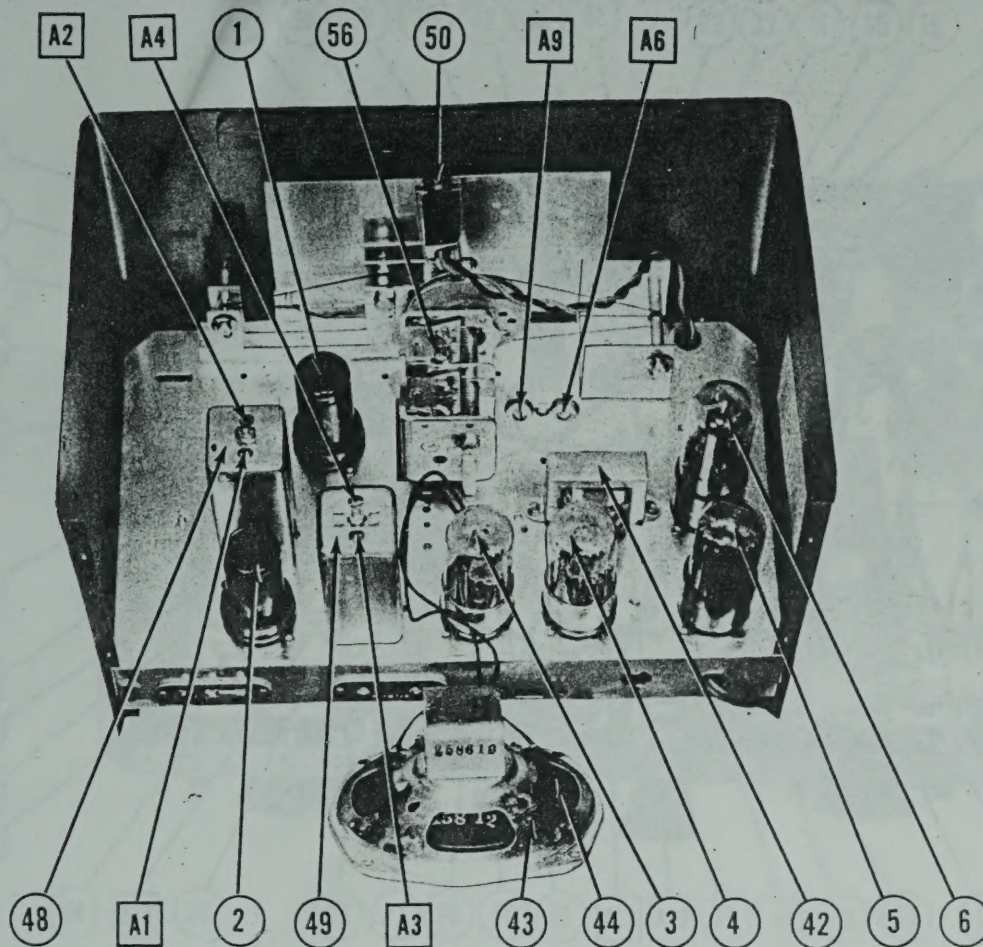
\*Not used in all models.

## CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	ANCE	REPLACEMENT DATA			INSTALLATION NOTES
				HALLICRAFTERS PART No.	MALLOY PART No.	CLAROSTAT PART No.	
24A	500KΩ	1			D11-133	M-58-S	Volume Control.
B	Shunt				Not Req.	Not Req.	Attach to 24A per instructions
C	Switch				M26	SW-A	" " " " " "

## RESISTORS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
			HALLICRAFTERS PART No.	IRC PART No.	
25	100KΩ			BTS-100K	Br.-blk.-Yl. Converter Grid
26	47K			BW-4-47	Yl.-Vl.-Blk. Parasitic Suppressor
27	20K			BTS-22K	Red-blk.-Or. Oscillator Grid
28	300Ω			BW-2-330	Or.-blk.-br. IF Cathode
29	2.2K			BTS-2.2 Meg.	Red-blk.-Grn. AVC Network
30	47K			BTS-47K	Yl.-Vl.-Or. RF Filter
31	10 Meg.			BTS-10 Meg.	Br.-blk.-Blue 1st AF Grid
32	240K			BTS-220K	Red-Yl.-Yl. " Plate Load
33	470K			BTS-470K	Yl.-Vl.-Yl. Output Grid
34	150Ω			BW-2-150	Br.-Grn.-br. Cathode
35	15Ω			BW-2-15	Br.-Grn.-Blk. Head Phone Shunt
36	470Ω			BTS-470	Yl.-Vl.-br. 2nd Plate Load
37	47K			BTS-47K	Yl.-Vl.-Or. " Grid
38	390Ω			BW-2-390	Or.-White-br. Pilot Light Shunt
39	27K			BW-2-27	Red-Yl.-Blk. Surge Limiter
40	750Ω			BTS-860	Yl.-Grn.-br. Filter
41	100KΩ			BTS-100K	Br.-blk.-Red









# **PARTS LIST AND DESCRIPTIONS (Continued)** **TRANSFORMER (OUTPUT)**

ITEM No.	RATING				REPLACEMENT DATA		INSTALLATION NOTES
	IMPEDANCE	DC RES.	DC RES.	THORNDYK PART No.			
42	PRI. SEC. 3.52 1502 .552	PRI. SEC. 3.52 1502 .552	PRI. SEC. 3.52 1502 .552	T22S45	Part of 85C033		

## **SPEAKER**

ITEM No.	RATINGS				REPLACEMENT DATA		INSTALLATION NOTES
	FIELD	VC I.P.P.	VC I.P.P.	VC I.P.P.	HALLICRAFTERS PART No.	JENSEN PART No.	
43	4 1/2"	3.52	3.52	3.52	85C033	ST-105	
44	4 1/2"	3.52	3.52	3.52	85C033	Mod. FS-X	

NOT READILY REPLACIBLE-USE COMPLETE SPEAKER UNIT.

## **R F COILS**

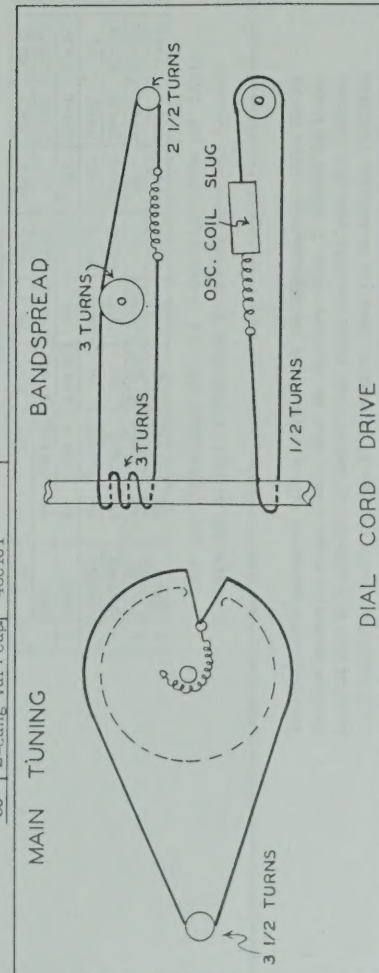
ITEM No.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI.	SEC.	HALLICRAFTERS PART No.	MEISSNER PART No.	
45A	Ant. Coil BC	282	3.52			Items 45A, 45B, 45C wound on same form
45B	"	12	.52			
45C	Ant. Coil	12	.52			
46A	Osc. Coil BC	22	.62			Items 46A, 46B, 46C wound on same form
46B	"	12	.62			
46C	"	12	.62			
47	RF Coil	52	.52			
48	Input IF	242	232	E50-183	16-6653	
49	Output IF	212	21.52	G50C184	16-6660	

## **DIAL LIGHT**

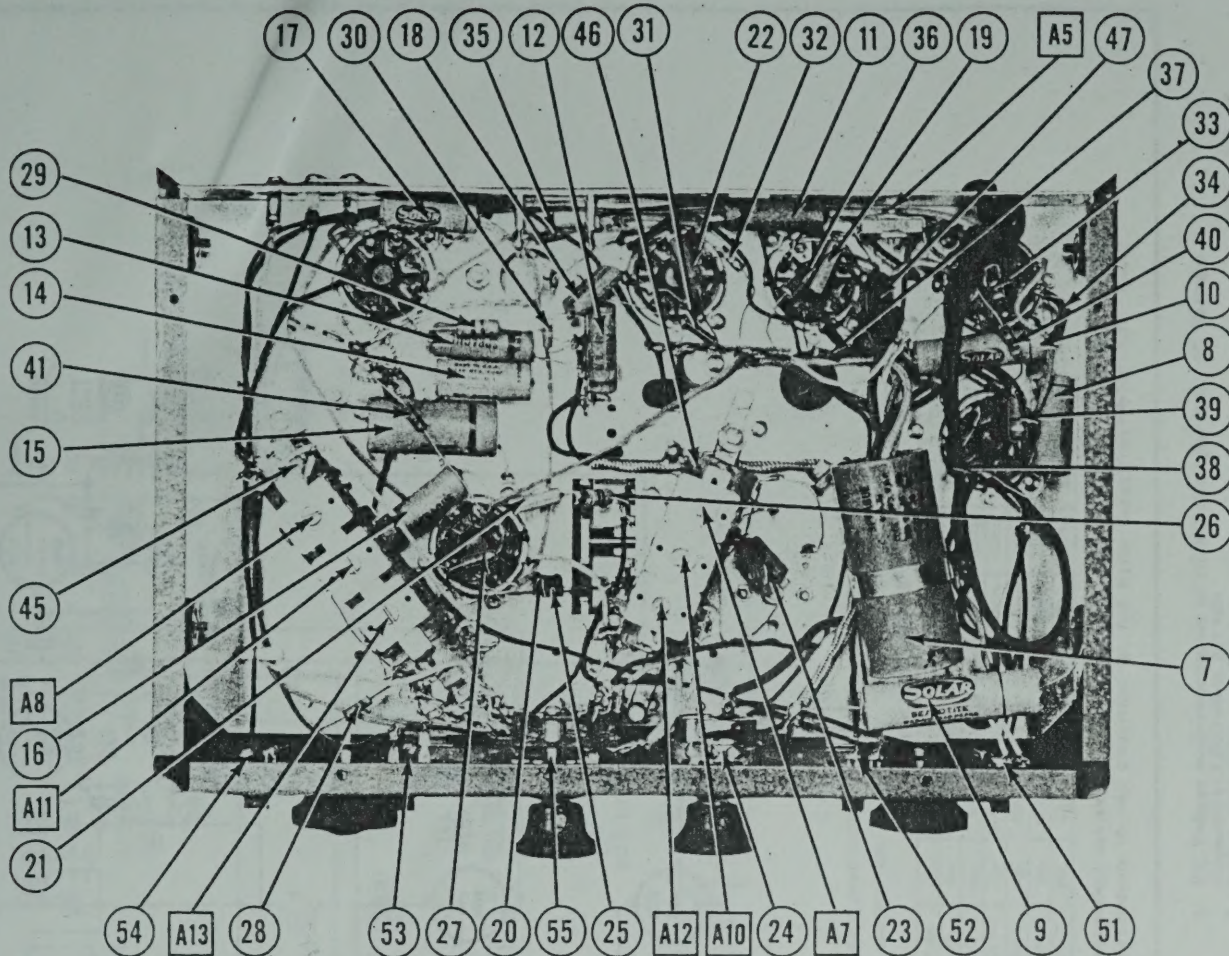
ITEM No.	BASE TYPE	VOLTS	AMPS	REPLACEMENT DATA		INSTALLATION NOTES
				BEAD COLOR	HALLICRAFTERS PART No.	
50	Bayonet	6-8	0.15	Brown		Type 47

## **MISCELLANEOUS**

ITEM No.	PART NAME	HALLICRAFTERS PART No.	NOTES
51	RF Switch		
52	Anti-Noise SW.		
53	Spkr. - Phones SW.		
54	Stand-by SW		
55	Band Switch		
56	2-Eng Var. Cap.	48C161	



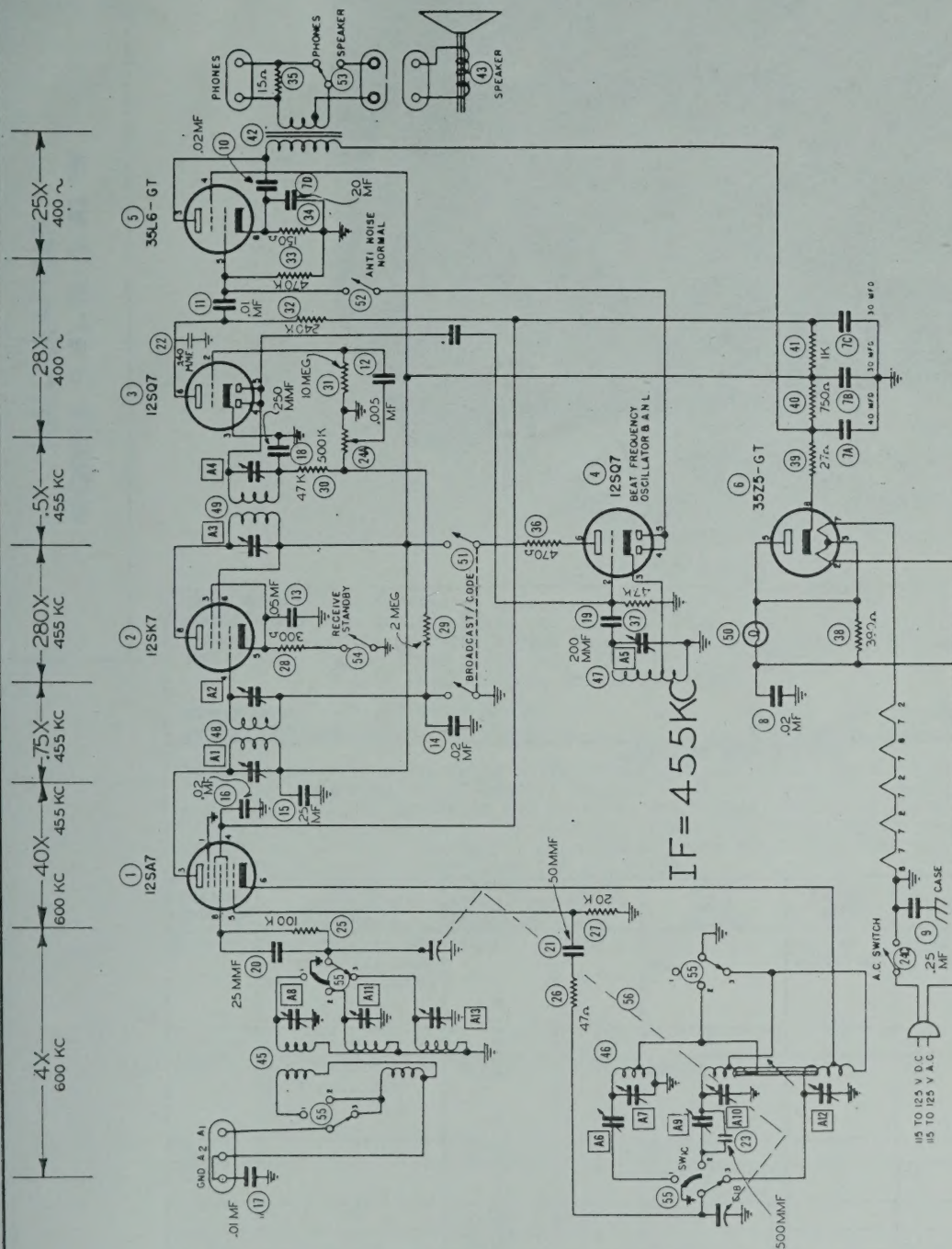
# **CHASSIS—BOTTOM VIEW**











(1) CONTROLS SET AS FOLLOWS: BROADCAST, ANTI-NOISE, BAND SWITCH ON NO. 1, SPEAKER AND RECEIVE.  
(2) READINGS ON BFO TUBE TAKEN WITH SWITCH IN CODE POSITION.

#### VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SA7	OV	24 V AC	97 V DC	87 V DC	OV	11 V AC	-45 V DC	OV
2	12SK7	OV	36 V AC	3.2 V DC	OV	3.2 V DC	97 V DC	24 V AC	97 V DC
3	12SQ7GT	OV	-5 V DC	OV	-5 V DC	64 V DC	11 V AC	OV	OV
4	12SQ7GT	OV	1 V DC	OV	1 V DC	95 V DC	36 V AC	46.5 V AC	OV
5	35L6GT	OV	46.5 V AC	107 V DC	97 V DC	OV	86 V AC	5.8 V DC	OV
6	35Z5GT	OV	117 V AC	113 V AC	OV	113 V AC	86 V AC	116 V DC	OV

THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

#### RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SA7	OV	21Ω	30KΩ	30KΩ	21KΩ	5Ω	11Ω	114KΩ
2	12SK7	OV	30Ω	2.4 MEGΩ	300Ω	30KΩ	21Ω	30KΩ	OV
3	12SQ7GT	OV	10 MEGΩ	0Ω	410KΩ	410KΩ	270KΩ	11Ω	OV
4	12SQ7GT	OV	45KΩ	1.5Ω	460KΩ	460KΩ	30KΩ	31Ω	41Ω
5	35L6GT	OV	41Ω	30KΩ	30KΩ	460KΩ	INF	72Ω	120Ω
6	35Z5GT	INF	97Ω	94Ω	94Ω	94Ω	30KΩ	72Ω	30KΩ

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

4610-19

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

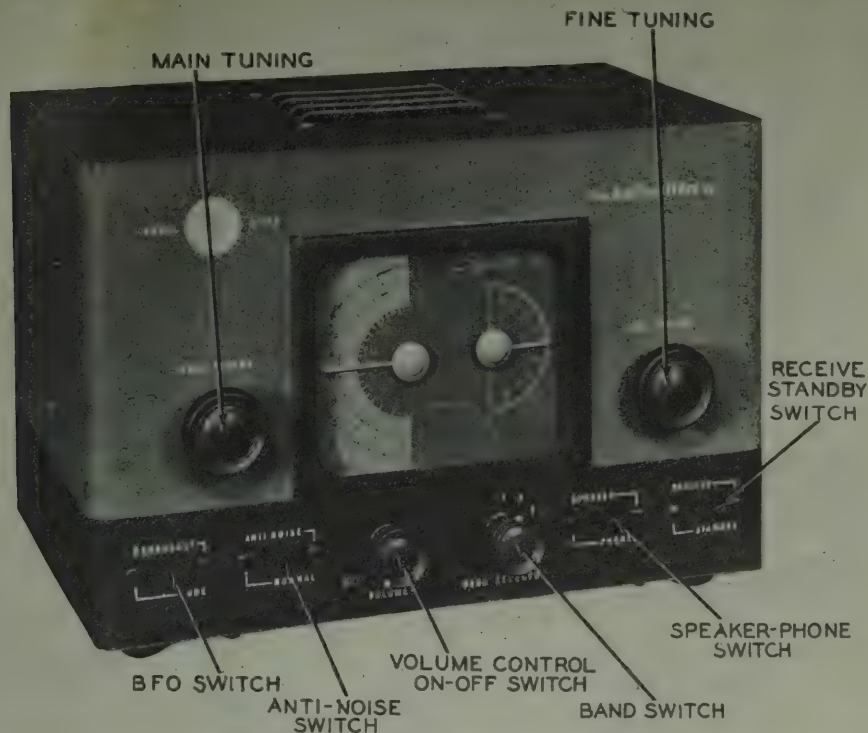
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.







HALLICRAFTERS  
MODELS S-41-G, S-41-W



HALLICRAFTERS MODEL S-41G

**TRADE NAME** Hallicrafters, Models S-41G, S-41W  
**MANUFACTURER** The Hallicrafters Co., 2611 S. Indiana Ave., Chicago, Ill.  
**TYPE SET** AC-DC Operated 3-Band Superheterodyne Communications Receiver  
**TUBES (SIX)** Types 12SA7 Converter, 12SK7 IF Amp., 12SQ7GT Det.-AVC-AF, 12SQ7GT BFO-ANL, 35L6GT Power Output, 35Z5GT Rectifier  
**POWER SUPPLY** 105-125 Volts AC-DC  
**TUNING RANGE—BROADCAST** 550-2100KC.  
**RATING** .250 Amp. @ 117 Volts AC  
**SHORT WAVE** 2.1-7.7 MC, 7.7-30.0 MC

## ALIGNMENT INSTRUCTIONS

To set pointer, turn variable fully closed and set pointer at the extreme low freq. end of the dial. Use isolation transformer if available. If not, connect capacitor in series with the low side of the signal generator and chassis. Set volume control at maximum volume and keep input from signal generator no higher than is necessary to obtain output reading. Keep bandspread pointer at "0" while making all adjustments. Have BFO switch "on" only while adjusting A5. Use insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
Direct.	High side to pin #8 of 6SA7. Low side to chassis.	455KC	Band 1	High freq. end.	Across voice coil	A1,A2, A3,A4.	Adjust for maximum output. If isolation trans. is not used use .001 MFD. capacitor as dummy Ant. to reduce hum modulation.
Direct.	"	"	"	"	"	A5	adjust for zero beat.
330Ω	High side to Ant. terminal. Low side to ground terminal.	600KC	"	600KC	"	A6	Adjust for maximum output
330Ω	"	1600KC	"	1600KC	"	A7	"
330Ω	"	"	"	Tune for maximum output.	"	A8	"
330Ω	"	2.4MC	band 2	2.4MC	"	A9	"
330Ω	"	7.0MC	"	7.0MC	"	A10	"
330Ω	"	"	"	Tune for maximum output.	"	A11	Rock variable and adjust for maximum output.
330Ω	"	28.0MC	Band 3	28.0MC	"	A12	adjust for maximum output
330Ω	"	28.0MC	"	Tune for maximum output.	"	A13	Rock variable and adjust for maximum output.

HALLICRAFTERS  
MODELS S-41-G, S-41-W

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PARTS LIST AND DESCRIPTIONS  
TUBES

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		HALLICRAFTERS PART No.	STANDARD REPLACEMENT		
1	Converter	12SA7	12SA7	8K	
2	IF Amp.	12SK7	12SK7	8N	
3	Det.-AVC-AF	12SQ7GT	12SQ7GT	8Q	
4	8FO-A.N.L.	12SQ7GT	12SQ7GT	8C	
5	Power Output	35L6GT	35L6GT	7AC	
6	Rectifier	35Z5GT	35Z5GT	6D	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
			HALLICRAFTERS PART No.	SOLAR PART No.	SPRAGUE PART No.	AEROVOX PART No.	
7A	40	150	45B087	DSB-403020	EL-443	PRS150-40-150	Filter - Red
B	30	150				207-25-20	" - Yellow
C	30	150				PRS150-50	" - Yellow
D	20	25					Cath. Bypass - Blue
8	.02	400		M-25-25		484-02	Line Filter
9	.25	200		S-4-02	TC-2	484-25	Cabinet Isolation
10	.02	600		S-6-02	TC-12	684-02	Output Plate Bypass
11	.01	400		S-4-01	TC-11	484-01	Audio Coupling
12	.005	600		S-6-005	TC-25	684-005	"
13	.05	200		S-4-05	TC-15	484-05	IF Cath. Bypass
14	.02	400		S-4-02	TC-12	484-02	AVC Filter
15	.25	200		S-4-25	TC-2	484-25	RF Bypass Pwr. Supp.
16	.05	200		S-4-05	TC-15	484-05	RF Screen bypass
17	.01	400		S-4-01	TC-11	484-01	Ext. ground Isolation
18	250	500		M0.5-325	1F1-325	1F1-325	IF bypass Diode
19	200	500		M0.5-32	1F1-32	1F1-32	AF Osc. Grid
20	25	500		M0.5-45	1F1-45	1F1-45	RF Coupling Cer.
21	500	500		M0.5-325	1F1-325	1F1-325	Osc. Grid Capacitor
22	240	500		M0.5-35	1F1-35	1F1-35	Audio Plate bypass*
23	500	500		M0.5-35	1F1-35	1F1-35	Fixed Trimmer*

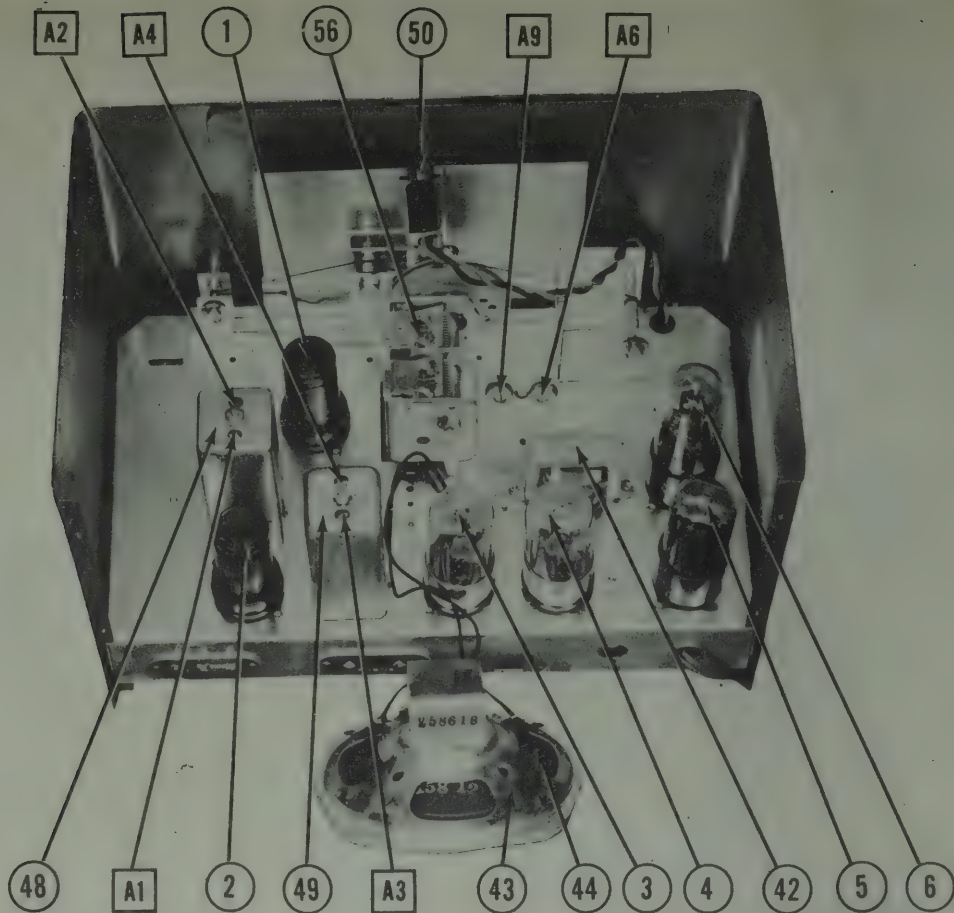
\*Not used in all models.

CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA			INSTALLATION NOTES
			HALLICRAFTERS PART No.	MALLORY PART No.	CLAROSTAT PART No.	
24A	500K $\Omega$	1		MR48	D11-133	Volume Control.
B	Shait			Not Req.	A	Attach to 24A per instructions
C	Switch			M26	41	" " " "

RESISTORS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
			HALLICRAFTERS PART No.	IRC PART No.	
25	100K $\Omega$			BTS-100K	Br.-Blk.-Yl. Converter Grid
26	47K $\Omega$			BM-47	Yl.-Vl.-Blk. Parasitic Suppressor
27	20K $\Omega$			BTS-22K	Red-Blk.-Or. Oscillator Grid
28	300K $\Omega$			BM-300	Or.-Blk.-Br. IF Cathode
29	2 Meg.			BTS-2.2 Meg.	Red-Blk.-Grn. AVC Network
30	47K $\Omega$			BTS-47K	Yl.-Vl.-Or. RF Filter
31	10 Meg.			BTS-10 Meg.	Br.-Blk.-Blue 1st AF Grid
32	240K $\Omega$			BTS-220K	Red-Vl.-Yl. Output Grid
33	470K $\Omega$			BTS-470K	Yl.-Vl.-Yl. Output Grid
34	150 $\Omega$			BM-150	Br.-Grn.-Br. Cathode
35	15K $\Omega$			BM-15	Br.-Grn.-Blk. Head Phone Shunt
36	470K $\Omega$			BTS-470	Yl.-Vl.-Br. bfo Plate Load
37	47K $\Omega$			BTS-47K	Yl.-Vl.-Or. " Grid
38	390K $\Omega$			BM-390	Or.-White-Br. Pilot Light Shunt
39	27K $\Omega$			BM-27	Red-Vl.-Blk. Surge Limiter
40	750K $\Omega$			BTS-680	Vl.-Crn.-Br. Filter
41	100K $\Omega$			BTS-1000	Br.-Blk.-Red





# PARTS LIST AND DESCRIPTIONS (Continued) TRANSFORMER (OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA		INSTALLATION NOTES
	IMPEDANCE	DC RES.	HALLICRAFTERS PART No.	THORDARN PART No.			
42	2200Ω	3.3Ω	160Ω	.55Ω	A-3376	T22545	

## SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA		INSTALLATION NOTES
	FIELD PK	VC IMP.	HALLICRAFTERS PART No.	JENSEN PART No.	
43	4 1/2"	3.3Ω	85C033	ST-105 Mod. PS-X	
44	4 1/2"	3.3Ω	85C033	ST-105 Mod. PS-X	NOT READILY REPLACEABLE-USE COMPLETE SPEAKER UNIT.

## R F COILS

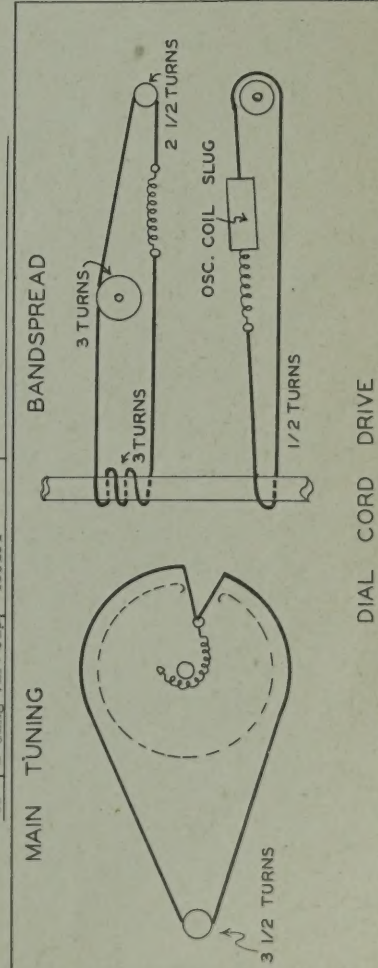
ITEM No.	USE	DC RES.		REPLACEMENT DATA		INSTALLATION NOTES
		PRI	SEC.	HALLICRAFTERS PART No.	MEISSNER PART No.	
45A	Ant. Coil BC	28Ω	3.5Ω			Items 45A, 45B, 45C wound on same form
45B	"	12	.5Ω			
45C	Ant. Coil	12	0Ω			
46A	Osc. Coil BC	22	.62			Items 46A, 46B, 46C wound on same form
46B	"	12	.62			
46C	"	12	.62			
47	IF Coil	5Ω	23Ω	E50-183	16-3658	
48	Input IF	24Ω	21.5Ω	G50C184	16-3680	
49	Output IF	21Ω				

## DIAL LIGHT

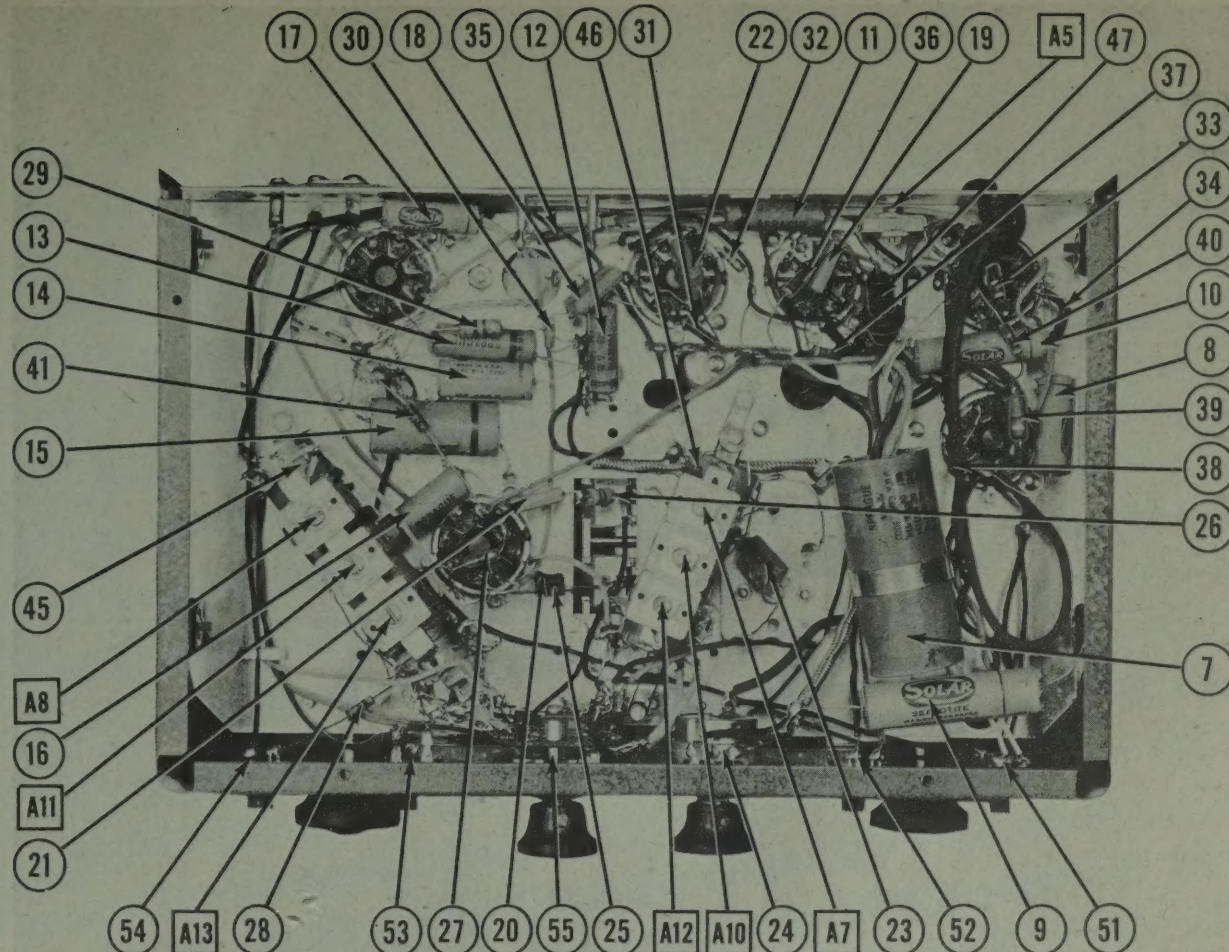
ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					HALLICRAFTERS PART No.	MEISSNER PART No.	
50	Bayonet	6-8	0.15	Brown			Type 47

## MISCELLANEOUS

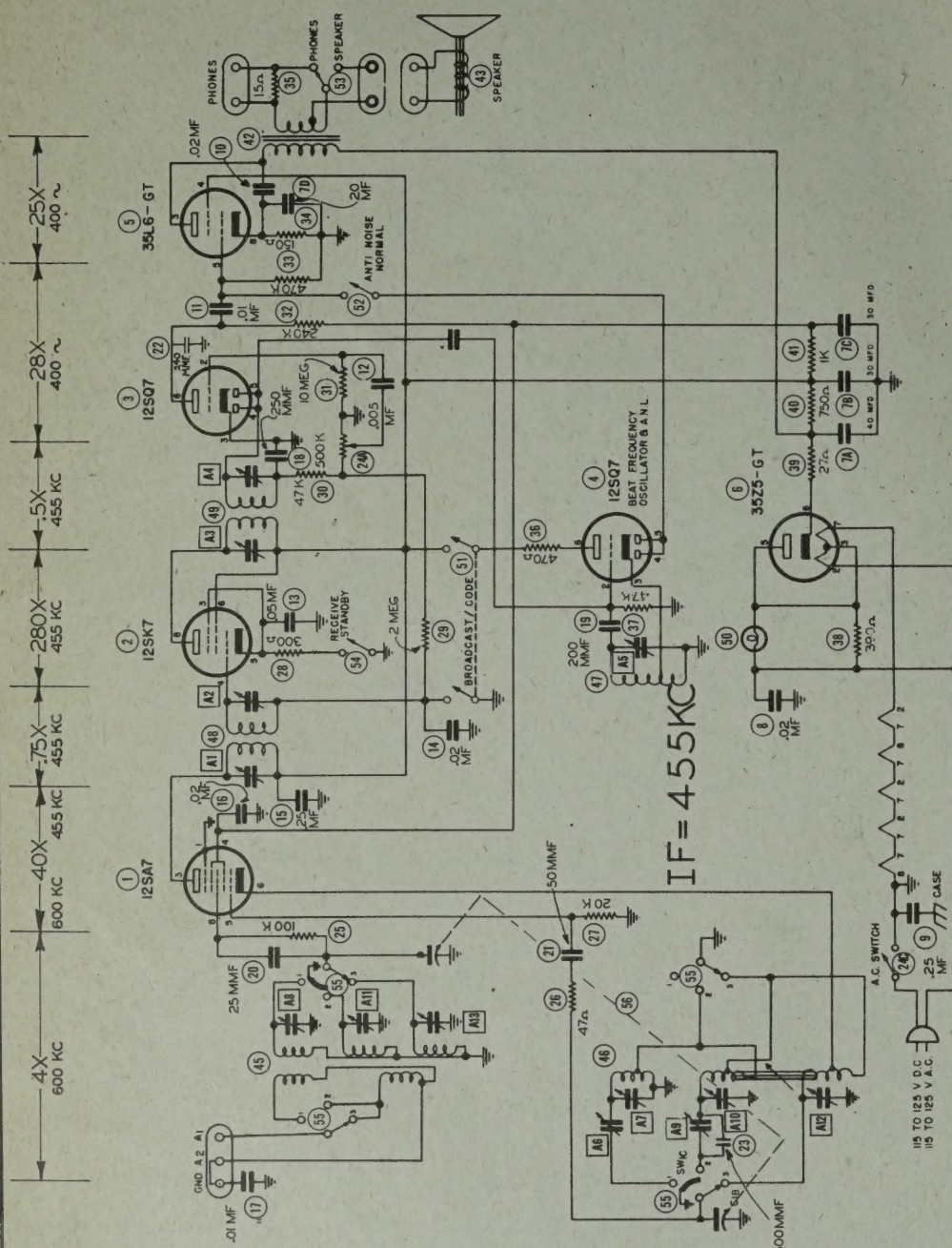
ITEM No.	PART NAME	HALLICRAFTERS PART No.	NOTES
51	EFO Switch		
52	Anti-Noise SW.		
53	Spkr.-Phones SW		
54	Stand-by SW		
55	Band Switch		
56	2-Gang Var. Cap.	48C161	



# CHASSIS—BOTTOM VIEW







(1) CONTROLS SET AS FOLLOWS: BROADCAST, ANTI-NOISE, BAND SWITCH ON NO.1, SPEAKER AND RECEIVE.  
 (2) READINGS ON BFO TUBE TAKEN WITH SWITCH IN CODE POSITION.

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SA7	OV	24 V AC	97 VDC	87 VDC	-3 VDC	OV	11 V AC	-45 VDC
2	12SK7	OV	36 V AC	3.2 VDC	97 VDC	24 V AC	97 VDC	24 V AC	97 VDC
3	12SQ7GT	OV	-5 VDC	-5 VDC	64 VDC	11 V AC	OV	OV	OV
4	12SQ7GT	OV	1 VDC	OV	95 VDC	36 V AC	46.5 VAC	46.5 VAC	46.5 VAC
5	35L6GT	OV	46.5 VAC	107 VDC	97 VDC	OV	OV	86 VAC	5.8 VDC
6	35Z5GT	OV	117 V AC	113 VDC	OV	113 VAC	86 VAC	116 VDC	116 VDC

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	12SA7	OV	21Ω	30KΩ	30KΩ	21KΩ	5Ω	11Ω	114KΩ
2	12SK7	OV	20Ω	300Ω	2.4 MEGΩ	300Ω	30KΩ	21Ω	30KΩ
3	12SQ7GT	OV	10 MEGΩ	0Ω	410KΩ	410KΩ	270KΩ	11Ω	0Ω
4	12SQ7GT	OV	45KΩ	45KΩ	460KΩ	460KΩ	30KΩ	31Ω	41Ω
5	35L6GT	OV	41Ω	30KΩ	30KΩ	460KΩ	460KΩ	72Ω	120Ω
6	35Z5GT	OV	97Ω	94Ω	94Ω	94Ω	94Ω	30KΩ	30KΩ

THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

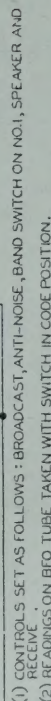
RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

4610-19

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.





Item	Tube	VOLTAGE READINGS					
		Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	
1	12SA7	0V	24V AC	97V DC	87V DC	-3V DC	
2	12SK7	0V	36V AC	3.2V DC	0V	3.2V DC	
3	12SQGT	0V	-5V DC	0V	-5V DC	-5V DC	
4	12SQGT	0V	1V DC	0V	1V DC	1V DC	
5	35L6GT	0V	46.5V AC	107V DC	97V DC	0V	
6	35Z5GT	0V	117V AC	113V AC	0V	113V AC	

THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

Item	RESISTANCE READINGS							
	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
1	12SA7	0Ω	21Ω	30KΩ	30KΩ	2KΩ	Pin 5	
2	12SK7	∞Ω	3Ω	300Ω	2.4MEG.	300Ω		
3	12SQ7GT	0Ω	10MEG.	0Ω	40KΩ	40KΩ		
4	12SQ7GT	0Ω	45KΩ	1.5Ω	460KΩ	460KΩ		
5	35A6GT	0Ω	4Ω	30KΩ	30KΩ	400KΩ		
6	35Z5GT	∞Ω	97Ω	94Ω	∞Ω	94Ω		

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY  
ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
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